

(19)



JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: **07052162 A**

(43) Date of publication of application: **28.02.95**

(51) Int. Cl.

**B29C 33/38**  
**C23C 4/00**  
**C23C 18/52**

(21) Application number: **03288239**

(22) Date of filing: **12.08.91**

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(54) **MANUFACTURE OF FLAME COATING MOLD  
HAVING HIGH DURABILITY AND HIGH  
PRECISION**

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(57) Abstract:

**PURPOSE:** To provide a manufacture of a simplified mold having a surface excellent in durability and with high precision by utilizing a metal spraying mood and non-electrolyte composite platings.

**CONSTITUTION:** When non-electrolyte composite platings are applied on a surface of a master 1 (e.g. wood, gypsum, plastic, wax), which has been first processed to a required size, the coating of ordinary nickel-phosphorus alloy is at first applied on the surface of the master and, in the course of plating, rigid fine particles (particle sizes are 5 to 50 $\mu$ m) are added to a plating solution to form a dispersedly plated film. Then, a sprayed metal film 3 of low-melting metal is formed in a thickness of about 1 to 10 $\mu$ m on the surface of the plated film and, as necessary, heat treatment is performed. Further, low-melting metal, a thermosetting resin and the like are packed as a reinforcing material 5 and, thereafter, these are released to make a mold.

